

Title (en)  
STABILIZED CARBAPENEM INTERMEDIATES AND SYNTHETIC USE

Title (de)  
STABILISIERTE CARBAPENEM-ZWISCHENPRODUKTEUND IHRE VERWENDUNG IN DER SYNTHESE

Title (fr)  
INTERMEDIAIRES STABILISES DE CARBAPENEM ET LEUR UTILISATION DANS DES SYNTHESSES

Publication  
**EP 0991651 A4 20010613 (EN)**

Application  
**EP 98931264 A 19980612**

Priority  
• GB 9719383 A 19970911  
• US 9812339 W 19980612  
• US 4964097 P 19970616

Abstract (en)  
[origin: WO9857973A1] A stabilized carbapenem intermediate compound represented by formula (1) or a salt thereof is disclosed, wherein P represents a carboxyl protecting group and X represents a charge balancing group. In addition, a process for synthesizing a compound represented by formula (2) is disclosed wherein X<+> is a charge balancing group, comprising: deprotecting a compound of formula (1) to produce a compound (2).

IPC 1-7  
**C07D 477/20**

IPC 8 full level  
**C07D 477/20** (2006.01); **C07D 477/00** (2006.01)

CPC (source: EP KR)  
**C07D 477/20** (2013.01 - EP KR); **Y02P 20/55** (2015.11 - EP)

Citation (search report)  
[DA] US 5478820 A 19951226 - BETTS MICHAEL J [GB], et al

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)  
**WO 9857973 A1 19981223**; AT E254127 T1 20031115; AU 726882 B2 20001123; AU 8142998 A 19990104; BR 9810135 A 20000808; CA 2293835 A1 19981223; CA 2293835 C 20030916; CN 1105719 C 20030416; CN 1259949 A 20000712; DE 69819727 D1 20031218; DE 69819727 T2 20040923; DK 0991651 T3 20040308; EA 001926 B1 20011022; EA 200000030 A1 20000626; EP 0991651 A1 20000412; EP 0991651 A4 20010613; EP 0991651 B1 20031112; ES 2210773 T3 20040701; HU P0004243 A2 20010328; HU P0004243 A3 20011228; JP 2000511206 A 20000829; JP 3245427 B2 20020115; KR 100364339 B1 20021218; KR 20010013774 A 20010226; NZ 500955 A 20010629; PL 337016 A1 20000731; PT 991651 E 20040331; SK 179799 A3 20000912; UA 58469 C2 20030815; YU 65899 A 20010528

DOCDB simple family (application)  
**US 9812339 W 19980612**; AT 98931264 T 19980612; AU 8142998 A 19980612; BR 9810135 A 19980612; CA 2293835 A 19980612; CN 98806091 A 19980612; DE 69819727 T 19980612; DK 98931264 T 19980612; EA 200000030 A 19980612; EP 98931264 A 19980612; ES 98931264 T 19980612; HU P0004243 A 19980612; JP 50460899 A 19980612; KR 19997011791 A 19991214; NZ 50095598 A 19980612; PL 33701698 A 19980612; PT 98931264 T 19980612; SK 179799 A 19980612; UA 00010193 A 19980612; YU 65899 A 19980612